

CLAIMS:

1. A laser device including an amplifying section in which
a laser medium is amplified to oscillate laser light,
5 and an optical element for separating part of the laser light
oscillated in said amplifying section, shaping a beam form of
the laser light into a desired form to output the same,
wherein said optical element has
at least either one of a partial reflecting portion for partially
10 reflecting the laser light or a non-reflective portion for
transmitting the laser light at high transmissivity, each of
which is provided on approximately a center portion, and
a total reflecting portion which is provided outside a perimeter
of said partial reflecting portion or said non-reflective portion,
15 and which reflects the laser light at high reflectivity.
2. A laser device including an amplifying section in which
a laser medium is amplified to oscillate laser light, comprising:
a front mirror having a partial reflecting portion which
20 is provided on approximately a center portion and partially
reflects the laser light, and a total reflecting portion which is
provided outside a perimeter of said partial reflecting portion
and reflects the laser light at high reflectivity,
wherein said front mirror separates part of the laser
25 light oscillated in said amplifying section, and shapes a beam

form of the laser light into a desired form to output the same.

3. A laser device including an amplifying section in which a laser medium is amplified to oscillate laser light, comprising:

5 a prism having a non-reflective portion which is provided on approximately a center portion and transmits the laser light at high transmissivity, and a total reflecting portion which is provided outside a perimeter of said non-reflective portion and reflects the laser light at high reflectivity,

10 wherein said prism separates part of the laser light oscillated in said amplifying section, and shapes a beam form of the laser light into a desired form to output the same.

4. The laser device in accordance with Claim 3, further comprising:

15 a front mirror having a partial reflecting portion which is provided on approximately a center portion and partially reflects the laser light, and a total reflecting portion which is provided outside a perimeter of said partial reflecting portion and reflects the laser light at high reflectivity,

20 wherein said front mirror separates part of the laser light from said amplifying section, and shapes the beam form of the laser light into a desired form to output the same.

25 5. A laser device including

an amplifying section in which a laser medium is amplified to oscillate laser beam,

a front slit and a rear slit which are provided to sandwich said amplifying section between them, and which separate part of

5 oscillated laser light from the laser light and shape a beam form into a desired form to outputs the same, and

a front mirror for partially transmitting the laser light

oscillated in said amplifying section to output the same,

wherein said front mirror

10 has a low transmission portion with low transmissivity of the laser light, formed on approximately a center portion, and a high transmission portion with high transmissivity of the laser light, formed outside a perimeter of said low transmission portion.